

**IN THE CLAIMS:**

This listing of claims will replace all prior versions and listings, of claims in the application:

**Listing of Claims:**

1-129. (Cancelled)

130. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

[a] at least one non-volatile memory component;

[a] at least one power management component;

at least one internal firewall with [a] at least one hardware component, the at least one internal firewall being configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to [a] the at least one network, the at least one network comprising the Internet.

131. (Currently Amended) The personal computer of claim 137, wherein the at least one wireless network connection mechanism is located on the at least one microchip.

132. (Currently Amended) The personal computer of claim 137, wherein the at least one network comprises the World Wide Web.

133. (Previously Presented) The personal computer of claim 137, wherein the personal computer comprises only one microchip.

134. (Currently Amended) The personal computer of claim [137] 136, wherein [the] at least one second personal computer is idled by [a] at least one personal user.

135. (Currently Amended) The personal computer of claim 137, wherein the at least one internal firewall is non-configurable hardware.

136. (Currently Amended) The personal computer of claim 137, wherein the personal computer is configured to function in [a] the shared use with operation comprising at least the personal computer and [a] at least one second personal computer connected to the at least one network.

137. (Currently Amended) The personal computer of claim 130, wherein the at least one internal firewall is [a] at least one hardware firewall.

138. (Currently Amended) The personal computer of claim 137, wherein the shared operation use comprises shared file resources and/or message passing.

139. (Currently Amended) The personal computer of claim 137, wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer.

140. (Currently Amended) The personal computer of claim 137, wherein the shared operation use comprises multi-tasking or parallel processing.

141. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one digital signal processor (DSP).

142. (Currently Amended) The personal computer of claim 137, wherein [a] at least one random access memory (RAM) located on the at least one microchip comprises [a] at least one non-cache memory.

143. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 8 microprocessors, exclusive of [the] any digital signal processors (DSPs).

144. (Currently Amended) The personal computer of claim 137, wherein the at least one wireless network connection mechanism is configured to process [a] at least one wireless signal that is dense wave division multiplexed (DWDM).

145. (Currently Amended) The personal computer of claim 137, wherein the at least one network comprises [a] at least one network server computer.

146. (Currently Amended) The personal computer of claim 137, wherein the at least one network comprises [an] at least one Intranet.

147. (Currently Amended) The personal computer of claim 137, wherein the at least one internal firewall includes [a] at least one firmware component.

148. (Currently Amended) The personal computer of claim 137, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by ~~at least one other~~ at least one other computer connected to the at least one network during a shared ~~operation~~ use involving the personal computer and the at least one ~~at least one other computer~~ of the network.

149. (Currently Amended) The personal computer of claim 148, wherein the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the ~~at least one~~ at least one personal computer by ~~at least one of the other computers of the~~ at least one other computer of the network during the shared use ~~operation~~.

150. (Currently Amended) The personal computer of claim 137, wherein at least one the personal computer is intended for personal use by ~~at least one of~~ [an] at least one individual owner and/or [a] at least one leaser of the personal computer.

151. (Currently Amended) The personal computer of claim 137, wherein ~~the personal computer comprises~~ there is a at least one connection from the personal computer to the at least one network, the at least one connection having a speed of data transmission that is greater than a peak data processing speed of the personal computer.

152. (Currently Amended) The personal computer of claim 137, wherein the personal computer is controlled by [a] at least one user of the personal computer through [a] at least one wireless controller operated by the at least one user.

153. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 16 microprocessors, exclusive of [the] any digital signal processors (DSPs).

154. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip provides [a] at least one graphics function.

155. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one modem component.

156. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip provides [a] at least one sound function.

157. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one video function.

158. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one magnetic memory component.

159. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one BIOS (basic input/output system) component.

160. (Currently Amended) The personal computer of claim 159, wherein the at least one BIOS component is located on [a] at least one flash memory component.

161. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least part of [a] at least one system bus component.

162. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one transponder.

163. (Currently Amended) The personal computer of claim 137, wherein the personal computer comprises: [a] at least one handheld personal digital assistant, [a] at least one wearable computer, [a] at least one television, [a] at least one digital set-top control box, [a] at least one video game, [a] at least one videocam, [a] at least one compact disc (CD) or [a] at least one digital video disk (DVD) player/recorder, [a] at least one radio, [a] at least one camera, [a] at least one household electronic device, or [a] at least one business electronic device, or any combination thereof.

164. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 32 microprocessors, exclusive of [the] any digital signal processors (DSPs).

165. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 64 microprocessors, exclusive of [the] any digital signal processors (DSPs).

166. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [an] at least one analog computer.

167. (Currently Amended) The personal computer of claim 137, wherein [a] at least one system bus of the at least one microchip comprises [a] at least one hierarchical connection architecture between at least some of the at least four microprocessors.

168. (Currently Amended) The personal computer of claim 167, wherein the at least one system bus comprises [a] at least one binary tree network architecture between at least some of the at least four microprocessors.

169. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 128 microprocessors, exclusive of [the] any digital signal processors (DSPs).

170. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 256 microprocessors, exclusive of the any digital signal processors (DSPs).

171. (Currently Amended) The personal computer of claim 137, wherein ~~the personal computer comprises~~ there is [a] at least one direct optical fiber connection to the at least one microchip.

172. (Currently Amended) The personal computer of claim 169, wherein at least some of the at least 128 microprocessors have [a] at least one non-superscalar architecture.

173. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip is connected to a hard disk drive controlled by the at least one microchip.



174. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one micro electromechanical (MEMS) component.

175. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least one integrated circuit with active configuration of ~~an integrated circuit of the microchip.~~

176. (Currently Amended) The personal computer of claim 175, wherein the at least one microchip comprises [a] at least one field-programmable gate array.

177. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 512 microprocessors, exclusive of [a] any digital signal processors (DSPs).

178. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [a] at least one hardware encryption component.

179. (Currently Amended) The personal computer of claim 137, wherein the personal computer comprises [an] at least one encryption microchip.

180. (Currently Amended) The personal computer of claim 137, wherein the personal computer comprises [a] at least one telephone.

181. (Currently Amended) The personal computer of claim 149, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network of computers during a shared operation use involving the personal computer and ~~at least one of the other computers of~~ the at least one network.

182. (Currently Amended) The personal computer of claim 137, wherein the at least one non-volatile memory component comprises [a] at least one flash memory component.

183. (Currently Amended) The personal computer of claim 149, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by ~~the other computers of the~~ at least one network during the shared operation use.

184. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least 1024 microprocessors, exclusive of [the] any digital signal processors (DSPs).

185. (Previously Presented) The personal computer of claim 184, wherein at least two of the microprocessors are used for parallel processing or multi-tasking.

186. (Currently Amended) The personal computer of claim 137, wherein the personal communications device computer comprises a pager.

187. (Previously Presented) The personal computer of claim 137, wherein the personal computer is mobile.

188. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises a television function.

189. (Currently Amended) The personal computer of claim 137, wherein the at least one wireless network connection mechanism is configured to make [a] at least one direct wireless connection to the at least one second personal computer, the at least one direct wireless connection being made without [a] at least one network server or router.

190. (Currently Amended) The personal computer of claim 137, wherein the personal computer is configured for [a] at least one substantially continuous wireless network connection.

191. (Currently Amended) The personal computer of claim 137, wherein ~~the personal computer comprises~~ there is also [an] at least one optical fiber network connection ~~mechanism being~~ configured to connect the personal computer to the at least one network and to process [a] at least one fiber optic signal that is wave division multiplexed.

192. (Currently Amended) The personal computer of claim 191, wherein the at least one optical fiber network connection mechanism is configured to process [a] at least one fiber optic signal that is wave division multiplexed.

193. (Currently Amended) The personal computer of claim 183, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by ~~at least one~~ at least one user of the personal computer during the shared use operation.

194. (Currently Amended) The personal computer of claim 137, wherein the personal computer comprises [an] at least one automobile, [a] at least one transportation device, or [a] at least one robot, or any combination thereof.

195. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises [an] at least one application-specific integrated circuit (ASIC).

196. (Currently Amended) The personal computer of claim 137, wherein the internal at least one hardware firewall is configured to deny all network access to at least a portion of the at least one non-volatile memory component.

197. (Currently Amended) The personal computer of claim 137, wherein the at least one microchip comprises at least two or four digital signal processors (DSPs).

198. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors  
(DSPs),

[a] at least one power management component,

at least one internal firewall, the at least one internal firewall being [a] at least one  
hardware firewall configured to allow and/or deny access to portions of the at least one microchip  
both to at least one user of the personal computer and to at least one user of the at least one  
microchip from [the] at least one network of computers during a shared use of the at least one  
microchip, and the at least one internal firewall configured to deny access to portions of the at least  
one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the  
personal computer to [a] the at least one network, the at least one network comprising the  
Internet.

199. (Currently Amended) The personal computer of claim 198, wherein the at least one  
internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip  
microprocessor of the personal computer by at least one other computer connected to the at least  
one network during a shared ~~operation~~ use involving the personal computer and the at least one  
other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to at least [a] one  
second microchip microprocessor of the ~~at least one~~ at least one personal computer by the at least  
one [of the] other ~~computers~~ computer of the at least one network during the shared use  
operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by at least one hacker[s] from outside the personal computer.

200. (Currently Amended) The personal computer of claim 199, wherein the at least one internal firewall is configured to deny access to ~~the~~ at least [the] one first microchip microprocessor of the personal computer by the at least one ~~other computers of the network of~~ computers during a shared ~~operation use~~ involving the personal computer and ~~at least one of the other computers of the~~ at least one network; and

wherein the shared ~~operation use~~ comprises shared file resources and/or message passing.

201. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors (DSPs);

[an] at least one analog communications component;

[a] at least one power management component; and

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to the at least one network, the at least one network comprising:  
the Internet.

202. (Currently Amended) The personal computer of claim 201, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by ~~at least one~~ at least one other computer connected to the at least one network during a shared ~~operation~~ use involving the personal computer and the ~~at least one~~ at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the ~~at least one~~ at least one personal computer by ~~at least one of the at least one other computers~~ computer of the at least one network during the shared use operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer .

203. (Currently Amended) The personal computer of claim 202, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the at least one other computers of the network of computers during a shared ~~operation~~ use involving the personal computer and ~~at least one of the other computers of the at least one network~~;

wherein the shared ~~operation~~ use comprises shared file resources and/or message passing.

204. (Currently Amended) A personal computer comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

[a] at least one digital signal processor (DSP);

[a] at least one power management component;

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to [a] the at least one network, the at least one network comprising:

the Internet.

205. (Currently Amended) The personal computer of claim 204, wherein the at least one internal firewall is configured to deny access to ~~at least~~ at least one a first microchip microprocessor of the personal computer by ~~at least one~~ at least one other computer connected to the at least one network during a shared ~~operation~~ use involving the personal computer and the ~~at least one~~ at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the ~~at least one~~ at least one personal computer by



~~at least one of the at least one other computers~~ computer of the at least one network during the shared operation use;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer.

206. (Currently Amended) The personal computer of claim 205, wherein the at least one internal firewall is configured to deny access to ~~at least the at least one~~ first microchip microprocessor of the personal computer by the ~~at least one other computers of the network of computers~~ during a shared operation use involving the personal computer and ~~at least one of the other computers of the at least one~~ network; and

wherein the shared operation use comprises shared file resources and/or message passing.

207. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

~~an active configuration of an integrated circuit of the microchip;~~

[a] at least one power management component function of the personal computer;

and

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one

microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to [a] the at least one network, the at least one network comprising:

the Internet;

wherein the at least one microchip is an active configuration of at least one integrated circuit.

208. (Currently Amended) The personal computer of claim 207, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by ~~at least one~~ at least one other computer connected to the network during a shared operation use involving the personal computer and the at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the personal computer by ~~at least one of the at least one~~ other ~~computers~~ computer of the at least one network during the shared use operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer.

209. (Currently Amended) The personal computer of claim 208, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the at least one ~~other computers of the network of~~

computers during [a] the shared use operation involving the personal computer and ~~at least one~~  
~~of the other computers~~ of the at least one network; and

wherein the shared ~~operation use~~ comprises shared file resources and/or message passing.

210. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

[a] at least one field-programmable gate array (FPGA);

[a] at least one power management component; and

~~at least one~~ at least one internal firewall, the at least one internal firewall being [a]  
at least one hardware firewall configured to allow and/or deny access to portions of the at least one  
microchip both to at least one user of the personal computer and to at least one user of the at least  
one microchip from [the] at least one network of computers during a shared use of the at least one  
microchip, and the at least one internal firewall being configured to deny access to portions of the  
at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the  
personal computer to the at least one network, the at least one network comprising:

the Internet.

211. (Currently Amended) The personal computer of claim 210, wherein the at least one  
internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip  
microprocessor of the personal computer by at least one other computer connected to the at least

one network during a shared ~~operation~~ use involving the personal computer and the at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to [at least a] at least one second microchip microprocessor of the personal computer by ~~at least one of the~~ at least one other ~~computers~~ computer of the at least one network during the shared use operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer.

212. (Currently Amended) The personal computer of claim 211, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the at least one ~~other computers of the network of~~ computers during a shared ~~operation~~ use involving the personal computer and ~~at least one of the other computers of the~~ at least one network; and

wherein the shared ~~operation~~ use comprises shared file resources and/or message passing.

213. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors  
(DSPs);

[a] at least one power management component; and

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one

microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to the at least one network, the at least one network comprising:

the Internet,

the at least one wireless network connection mechanism comprising a capability to make [a] at least one wireless connection to [a] at least one second personal computer through at least one wireless link, and

the at least one wireless connection being made without [a] any network servers or routers.

214. (Currently Amended) The personal computer of claim 213, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by at least one other computer connected to the network during a shared ~~operation~~ use involving the personal computer and the at least one-other computer of the at least one network; and

the at least one internal firewall is further configured to allow access to ~~at least~~ at least one [a] second microchip microprocessor of the personal computer by ~~at least one of the~~ at least one other ~~computer~~ computers of the at least one network during the shared use ~~operation~~;

wherin the shared use includes unauthorized shared use, ~~such as~~ including intrusion by [hackers] at least one hacker from outside the personal computer.

215. (Currently Amended) The personal computer of claim 213, wherein the at least one wireless network connection mechanism makes the at least one wireless connection directly to the at least one second personal computer through only one wireless link.

216. (Currently Amended) The personal computer of claim 213, wherein the at least one wireless network connection mechanism comprises a capability to make [a] the at least one wireless connection to [a] at least one third personal computer through only one wireless link, such that the at least one third personal computer has a wireless connection to the at least one second personal computer through the personal computer.

217. (Currently Amended) The personal computer of claim 214, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the at least one ~~other computers of the network of computers~~ during a shared ~~operation use~~ involving the personal computer and ~~at least one of the other computers of the~~ at least one network; and

wherein the shared ~~operation use~~ comprises shared file resources and/or message passing.

218. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

[a] at least one non-volatile memory component;

[a] at least one power management component; and

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to the at least one network, the at least one network comprising:

the Internet.

219. (Currently Amended) The personal computer of claim 218, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by at least one other computer connected to the at least one network during a shared ~~operation~~ use involving the personal computer and the at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the personal computer by ~~at least one of the at least one~~ other ~~computers~~ computer of the at least one network during the shared use ~~operation~~;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by at least one hacker[s] from outside the personal computer.

220. (Currently Amended) The personal computer of claim 219, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip

microprocessor of the personal computer by the at least one ~~other computers of the network of computers~~ during a shared ~~operation use~~ involving the personal computer and ~~at least one of the other computers of the~~ at least one network; and

wherein the shared ~~operation use~~ comprises shared file resources and/or message passing.

221. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

[a] at least one digital signal processor (DSP);

[a] at least one power management component; and

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to the at least one network, the at least one network comprising:

the Internet; and

the World Wide Web.



222. (Currently Amended) The personal computer of claim 221, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by at least one other computer connected to the at least one network during a shared ~~operation~~ use involving the personal computer and the at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the personal computer by ~~at least one of the~~ at least one other ~~computers~~ computer of the at least one network during the shared use operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer.

223. (Currently Amended) The personal computer of claim 222, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the at least one ~~other computers of the network of~~ computers during a shared ~~operation~~ use involving the personal computer and ~~at least one of the other computers of the~~ at least one network; and

wherein the shared ~~operation~~ use comprises shared file resources and/or message passing.

224. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors  
(DSPs);

[a] at least one digital signal processor (DSP);

[a] at least one power management component; and

at least one internal firewall, the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to the at least one network, the at least one network comprising:

the Internet.

225. (Currently Amended) The personal computer of claim 224, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by at least one other computer connected to the at least one network during [a] the shared operation use involving the personal computer and the at least one other computer of the at least one network, and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the at least one at least one personal computer by ~~at least one of the at least one other computers~~ computer of the at least one network during the shared use operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by hackers from outside the personal computer.

226. (Currently Amended) The personal computer of claim 225, wherein the at least one internal firewall is configured to deny access to ~~at least the~~ at least one first microchip microprocessor of the personal computer by the at least one ~~other computers of the network of computers during a shared operation the shared use~~ involving the personal computer and ~~at least one of the other computers of the~~ the at least one network; and  
wherein the shared ~~operation use~~ comprises shared file resources and/or message passing.

227. (Currently Amended) A personal computer, comprising:

[a] at least one microchip, the at least one microchip comprising:

at least four microprocessors, exclusive of [a] any digital signal processors

(DSPs);

[an] at least one application-specific integrated circuit (ASIC);

[a] at least one power management component; and

at least one internal firewall;

the at least one internal firewall being [a] at least one hardware firewall configured to allow and/or deny access to portions of the at least one microchip both to at least one user of the personal computer and to at least one user of the at least one microchip from [the] at least one network of computers during a shared use of the at least one microchip, and the at least one internal firewall being configured to deny access to portions of the at least one microchip from the at least one network; and

[a] at least one wireless network connection mechanism configured to connect the personal computer to the at least one network, the at least one network comprising:

the Internet.

228. (Currently Amended) The personal computer of claim 227, wherein the at least one internal firewall is configured to deny access to ~~at least~~ [a] at least one first microchip microprocessor of the personal computer by at least one other computer connected to the at least one network during ~~a shared operation~~ the shared use involving the personal computer and the at least one other computer of the network; and

the at least one internal firewall is further configured to allow access to ~~at least~~ [a] at least one second microchip microprocessor of the personal computer by ~~at least one of the~~ at least one other computers of the network of computers during the shared use operation;

wherein the shared use includes unauthorized shared use, ~~such as~~ including intrusion by at least one hacker[s] from outside the personal computer.

229. (Currently Amended) The personal computer of claim 228, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one first microchip microprocessor of the personal computer by the at least one other computers of the network of computers during [a] the shared operation use involving the personal computer and ~~at least one of the other computers of the~~ at least one network; and

wherein the shared operation use comprises shared file resources and/or message passing.

230. (Currently Amended) The personal computer of claim 130, wherein the at least one wireless network connection mechanism is configured to process [a] at least one wireless signal that comprises multiplexing.

231. (Currently Amended) The personal computer of claim 130, wherein the at least one wireless network connection mechanism is configured to process [a] at least one wireless signal that is wave division multiplexed (WDM).

232. (Currently Amended) The personal computer of claim 199, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the at least one other ~~computers~~ computer of the at least one network during the shared use operation.

233. (Currently Amended) The personal computer of claim 232, wherein the at least one internal firewall is configured to deny access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by at least one user of the personal computer during the shared use operation.

234. (Currently Amended) The personal computer of claim 202, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

235. (Currently Amended) The personal computer of claim 234, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

236. (Currently Amended) The personal computer of claim 205, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

237. (Currently Amended) The personal computer of claim 236, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

238. (Currently Amended) The personal computer of claim 208, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

239. (Currently Amended) The personal computer of claim 238, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

240. (Currently Amended) The personal computer of claim 211, wherein the at least one internal firewall is configured to allow access to ~~at least~~ the at least one second microchip

microprocessor of the personal computer by ~~other computers of the~~ the at least one network during the shared use operation.

241. (Currently Amended) The personal computer of claim 240, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ the at least one network during the shared use operation.

242. (Currently Amended) The personal computer of claim 214, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ the at least one network during the shared use operation.

243. (Currently Amended) The personal computer of claim 242, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ the at least one network during the shared use operation.

244. (Currently Amended) The personal computer of claim 219, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ the at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ the at least one network during the shared use operation.

245. (Currently Amended) The personal computer of claim 244, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

246. (Currently Amended) The personal computer of claim 225, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

247. (Currently Amended) The personal computer of claim 246, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

248. (Currently Amended) The personal computer of claim 228, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ at least one second microchip microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

249. (Currently Amended) The personal computer of claim 248, wherein the at least one internal firewall is configured to allow access to ~~at least the~~ at least one second microchip



microprocessor of the personal computer by the ~~other computers of the~~ at least one network during the shared use operation.

250. (Currently Amended) The personal computer of Claim 198, wherein said at least one microchip comprises at least 64 microprocessors.

251. (Currently Amended) The personal computer of Claim 198, wherein said at least one microchip comprises at least 1024 microprocessors.

252. (Currently Amended) The personal computer of Claim 201, wherein said at least one microchip comprises at least 64 microprocessors.

253. (Currently Amended) The personal computer of Claim 201, wherein said at least one microchip comprises at least 1024 microprocessors.

254. (Currently Amended) The personal computer of Claim 204, wherein said at least one microchip comprises at least 64 microprocessors.

255. (Currently Amended) The personal computer of Claim 204, wherein said at least one microchip comprises at least 1024 microprocessors.

256. (Currently Amended) The personal computer of Claim 207, wherein said at least one microchip comprises at least 64 microprocessors.

257. (Currently Amended) The personal computer of Claim 207, wherein said at least one microchip comprises at least 1024 microprocessors.

258. (Currently Amended) The personal computer of Claim 210, wherein said at least one microchip comprises at least 64 microprocessors.

259. (Currently Amended) The personal computer of Claim 210, wherein said at least one microchip comprises at least 1024 microprocessors.

260. (Currently Amended) The personal computer of Claim 213, wherein said at least one microchip comprises at least 64 microprocessors.

261. (Currently Amended) The personal computer of Claim 213, wherein said at least one microchip comprises at least 1024 microprocessors.

262. (Currently Amended) The personal computer of Claim 218, wherein said at least one microchip comprises at least 64 microprocessors.

263. (Currently Amended) The personal computer of Claim 218, wherein said at least one microchip comprises at least 1024 microprocessors.

264. (Currently Amended) The personal computer of Claim 221, wherein said at least one microchip comprises at least 64 microprocessors.

265. (Currently Amended) The personal computer of Claim 221, wherein said at least one microchip comprises at least 1024 microprocessors.

266. (Currently Amended) The personal computer of Claim 224, wherein said at least one microchip comprises at least 64 microprocessors.

267. (Currently Amended) The personal computer of Claim 224, wherein said at least one microchip comprises at least 1024 microprocessors.

268. (Currently Amended) The personal computer of Claim 227, wherein said at least one microchip comprises at least 64 microprocessors.

269. (Currently Amended) The personal computer of Claim 227, wherein said at least one microchip comprises at least 1024 microprocessors.

270. (Currently Amended) The personal computer of claim 137, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

271. (Currently Amended) The personal computer of claim 198, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

272. (Currently Amended) The personal computer of claim 201, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

273. (Currently Amended) The personal computer of claim 204, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

274. (Currently Amended) The personal computer of claim 207, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

275. (Currently Amended) The personal computer of claim 210, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

276. (Currently Amended) The personal computer of claim 213, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

277. (Currently Amended) The personal computer of claim 218, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

278. (Currently Amended) The personal computer of claim 221, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

279. (Currently Amended) The personal computer of claim 224, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.

280. (Currently Amended) The personal computer of claim 227, wherein said at least one internal firewall is configured to permanently deny access to portions of said at least one microchip from said at least one network.